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[1. 16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

SBIR Department of Transportation

[2. 16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

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[3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

SBIR Department of Transportation

[4. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics Activity Department of Defense

[5. 15.1-FH1: Driver Engagement/Status Monitoring Technologies for Vehicle Automation Applications](#)

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH1 DOT SBIR DTRT57-15-R-SBIR1 1 ...

SBIR Department of Transportation

[6. 15.1-FH2: Community College- Technical School Intelligent Transportation Systems \(ITS\) Curricula](#)

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH2 DOT SBIR DTRT57-15-R-SBIR1 1 ...

SBIR Department of Transportation

[7. 15.1-FH3: Roadway Hazard Alert System for Motorcycles](#)

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date:

03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH3 DOT SBIR DTRT57-15-R-SBIR1 1 ...

SBIR Department of Transportation

8. [15.1-FH4: From Vehicle Performance to Transportation System Performance-Systems Impacts of Automated Vehicles](#)

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH4 DOT SBIR DTRT57-15-R-SBIR1 1 ...

SBIR Department of Transportation

9. [15.1-FR1: Wireless Compatible Digital Train Line \(WiDTL\) for Passenger Type Vehicles in a Train Consist](#)

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FR1 DOT SBIR DTRT57-15-R-SBIR1 1 ...

SBIR Department of Transportation

10. [15.1-FR2: Active Personal Safety System for Train Yard and Road Crewworkers](#)

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FR2 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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